Application No.: 10/084,336 Amendment dated June 14, 2010

Reply to Office Action of Mar. 22, 2010

AMENDMENT

Atty. Docket No: 032301.606

IN THE CLAIMS:

Please amend the claims as follows:

1-6. (Canceled)

- 7. (Previously Presented) The method of claim 16 further comprising re-mixing the surface modification agent(s) and the aerosol doped, surface-modified, pyrogenically produced oxides for 15 to 30 minutes and tempering at a temperature of 100 to 400°C for a period of 1 to 6 hours.
- 8. (Previously Presented) The surface-modified, pyrogenically produced oxides according to claim 15, wherein the compound is octyltrimethoxysilane.

9-14. (Canceled)

- 15. (Previously presented) A rapid dissolving reinforcing filler composition for organic systems comprising a reinforcing amount of surface-modified, aerosol doped-pyrogenically produced oxides wherein the dopants are selected from cerium, aluminum, potassium or salts or oxides thereof, wherein the pyrogenically produced oxides are selected from the group consisting of SiO₂, Al₂O₃, TiO₂, B₂O₃, ZrO₂, In₂O₃, ZnO, Fe₂O₃, Nb₂O₅, V₂O₅, WO₃, SnO₂ and GeO₂, and wherein the surface modification is a hydrophobic surface obtained by spraying the pyrogenic oxides, having a BET surface between 40 and 217 m²/g and dopant homogeneously distributed within the pyrogenically produced oxide, with one or several compounds selected from the group consisting of octyltrimethoxysilane (Si 108), hexamethyldisilazane (HMDS), polydimethylsiloxane (PDMS) and γ- aminopropyltriethoxysilane (AMEO).
- 16. (Previously presented) A method of producing aerosol doped, surface-modified pyrogenically produced oxides, comprising placing aerosol doped-pyrogenically produced oxides, having a BET surface is between 40 and 217 m²/g and dopant homogeneously distributed

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within the pyrogenically produced oxide, in a suitable mixing container, spraying the oxides with water and/or acid and then spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents under conditions where oxygen is excluded, to form the aerosol doped, surface-modified, pyrogenically produced oxides, wherein the dopants are selected from cerium, aluminum, potassium, or salts or oxides thereof, wherein the oxides are selected from the group consisting of SiO₂, Al₂O₃, TiO₂, B₂O₃, ZrO₂, In₂O₃, ZnO, Fe₂O₃, Nb₂O₅, V₂O₅, WO₃, SnO₂ and GeO₂, wherein the surface modification reagent or a mixture of several surface-modification reagents are selected from the group consisting of octyltrimethoxysilane (Si 108), hexamethyldisilazane (HMDS), polydimethylsiloxane (PDMS) and γ-aminopropyltriethoxysilane (AMEO).

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- 17. (Previously presented) The surface-modified, pyrogenically produced oxides according to claim 15 wherein the dopant is potassium oxide and the pyrogenically produced oxide is silica.
- 18. (Previously presented) The method according to claim 16 wherein the dopant is potassium and the pyrogenically produced oxide is silica.
- 19. (New) A rapid dissolving reinforcing filler composition for organic systems comprising a reinforcing amount of surface-modified, aerosol doped-pyrogenically produced oxides wherein the dopant is aluminum or salts or oxides thereof, wherein the pyrogenically produced oxide is SiO_2 and wherein the surface modification is a hydrophobic surface obtained by spraying the pyrogenic oxides, having a BET surface between 40 and 217 m²/g and dopant homogeneously distributed within the pyrogenically produced oxide, with one or several compounds selected from the group consisting of octyltrimethoxysilane (Si 108), hexamethyldisilazane (HMDS), polydimethylsiloxane (PDMS) and γ aminopropyltriethoxysilane (AMEO).
- 20. (New) A method of producing aerosol doped, surface-modified pyrogenically produced oxides, comprising placing aerosol doped-pyrogenically produced oxides, having a BET surface is between 40 and 217 m²/g and dopant homogeneously distributed within the pyrogenically produced oxide, in a suitable mixing container, spraying the oxides with water and/or acid and

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then spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents under conditions where oxygen is excluded, to form the aerosol doped, surface-modified, pyrogenically produced oxides, wherein the dopant is aluminum, or salts or oxides thereof, wherein the oxide is SiO_2 , and wherein the surface modification reagent or a mixture of several surface-modification reagents are selected from the group consisting of octyltrimethoxysilane (Si 108), hexamethyldisilazane (HMDS), polydimethylsiloxane (PDMS) and γ -aminopropyltriethoxysilane (AMEO).